

CONTENTS OF VOLUME 13

NUMBER 1

B. BOLLOBÁS, P. ERDŐS, J. SPENCER, D. B. WEST: Clique coverings of the edges of a random graph .....	1
C. R. COULLARD, L. L. GARDNER, D. K. WAGNER: Decomposition of 3-connected graphs .....	7
P. ERDŐS, A. HAJNAL, M. SIMONOVITS, V. T. SÓS, E. SZEMERÉDI: Turán–Ramsey theorems and simple asymptotically extremal structures .....	31
P. ERDŐS, L. B. RICHMOND: On graphical partitions .....	57
A. FRANK: Conservative weightings and ear-decompositions of graphs ...	65
G. S. LUEKER, M. MOLODOWITCH: More analysis of double hashing .	83
M. MIDDENDORF, F. PFEIFFER: On the complexity of the disjoint paths problem .....	97
A. SIDORENKO: Boundedness of optimal matrices in extremal multigraph and digraph problems .....	109

NOTES

O. BORODIN: Joint extension of two theorems of Kotzig on 3-polytopes ..	121
Z. ZHANG: A note on arrays of dots with distinct slopes .....	127

NUMBER 2

M. AJTAI, N. LINIAL: The influence of large coalitions .....	129
B. BOLLOBÁS, G. BRIGHTWELL: Cycles through specified vertices ....	147
R. CORDOVIL, M. L. MOREIRA: Bases–cobases graphs and polytopes of matroids .....	157
Z. FÜREDI, J. KAHN, P. D. SEYMOUR: On the fractional matching polytope of a hypergraph .....	167
T. C. HALES: Remarks on the density of sphere packings in three dimensions .....	181
P. L. HAMMER, F. MAFFRAY: Preperfect graphs .....	199
W. C. STEPHEN SUEN: On depth first search trees in $m$ -out digraphs ..	209

NOTES

M. BLIDIA, P. DUCHET, F. MAFFRAY: On kernels in perfect graphs .	231
J. FRIEDMAN: A note on matrix rigidity .....	235

## NUMBER 3

R. AHLWEDE, NING CAI: A generalization of the AZ identity.....	241
Y. S. KUPITZ: Separation of a finite set in $\mathbb{R}^d$ by spanned hyperplanes..	249
J. RICHTER-GEBERT: Euclideaness and final polynomials.....	259
Y. RINOTT, M. SAKS: Correlation inequalities and a conjecture for permanents .....	269
N. ROBERTSON, P. D. SEYMOUR, R. THOMAS: Hadwiger's conjecture for $K_6$ -free graphs.....	279
M. SEYSEN: Simultaneous reduction of a lattice basis and its reciprocal basis .....	363

## NUMBER 4

P. J. CAMERON, C. E. PRAEGER, N. C. WORMALD: Infinite highly arc transitive digraphs and universal covering digraphs.....	377
M. DEZA, V. P. GRISHUKHIN, M. LAURENT: The hypermetric cone is polyhedral .....	397
P. FRANKL, N. TOKUSHIGE: Weight functions on the Kneser graph and the solution of an intersection problem of Sali.....	413
P. HELL, H. ZHOU, X. ZHU: Homomorphisms to oriented cycles .....	421
K. KILAKOS, B. REED: Fractionally colouring total graphs.....	435
N. LINIAL, M. SAKS: Low diameter graph decompositions.....	441
J. MATOUŠEK, E. WELZL, L. WERNISCH: Discrepancy and approximations for bounded VC-dimension.....	455
J. OXLEY, G. WHITTLE: Some excluded-minor theorems for a class of polymatroids .....	467
K. SEYFFARTH: Small cycle double covers of 4-connected planar graphs .	477
M. SHARIR: $k$ -sets and random hulls .....	483
Contents of Volume 13 .....	497
Author Index for Volume 13.....	499

